

74-11 V

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WALT. WE
RALPH. *[Signature]*

12 June 1956

MEMORANDUM FOR: THE RECORD

SUBJECT : Testing at Fort Belvoir

1. In April 1956, additional testing was conducted at the Demolition Test area, Mine Warfare Branch, Ft. Belvoir, under project FB-79. The purpose of this testing was to examine the sealing properties of the adapter booster, coupling base, and 24-Hour Clockwork combination.

2. Description of the tests -

Ten firing systems comprised of a 24 Hour Clockwork without firing pin, coupling base, adapter booster, and M-34 detonator were placed in a pressure vessel under water at 90 psi for 24 hours. In addition, ten coupling base, adapter booster, M-34 combinations were subjected to the same conditions.

3. Results -

The coupling bases were then tested for functioning. Six bases fired low order, and the remaining 4 failed to fire.

Detonator, adapter booster assemblies were tested for functioning by using dry coupling bases. Results follow:

1. M-34 went low order
2. " " " "
3. " " " "
4. " " " "
5. Entire system high order
6. Only coupling base fired
7. " " " "
8. Entire system high order
- 9-20. Only coupling base fired

4. Results of testing gasket seals -

	<u>Clock - base</u>	<u>Base-Booster</u>	<u>Booster -M-34</u>
1.	Dry	Wet	Wet
2.	Dry	Wet	Wet
3.	Dry	Wet	Wet
4.	Dry	Wet	Wet
5.	Dry	Dry	Dry
6.	Wet	Wet	Wet
7.	Wet	Wet	

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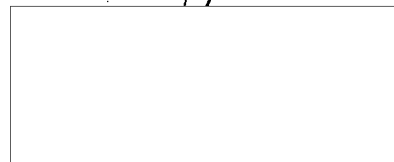
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<u>Clock-Base</u>	<u>Base-Booster</u>	<u>Booster- M-34</u>
8. Dry	Wet	Wet
9. Wet	Wet	Wet
10. Wet	Wet	Wet

<u>Base-Booster</u>	<u>Booster-M-34</u>
1. Wet	Wet
2. "	"
3. "	"
4. "	"
5. "	"
6. "	"
7. "	"
8. "	"
9. "	"
10. "	"

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*old adapter booster gaskets
were used in these tests*

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